

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/019464 A1

- (51) International Patent Classification: C12N 15/863, A61K 39/00, A61P 35/00, C12N 15/12
- (21) International Application Number: PCT/AU2004/001129
- (22) International Filing Date: 20 August 2004 (20.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 2003904496 21 August 2003 (21.08.2003) AU
- (71) Applicant (for all designated States except US): VIRAX DEVELOPMENT PTY LTD [AU/AU]; Suite 220, Kew Junction Tower, 89 High Street, Kew, Victoria 3101 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BROWN, Michael, Paul [AU/AU]; 83 Anglesey Avenue, St Georges, South Australia 5064 (AU). HOWLEY, Paul, Michael [AU/GB]; 60 Rose Avenue, Glen Waverley, Victoria 3150 (AU).
- (74) Agents: HUTCHISON, Jane, E. et al.; Davies Collison Cave, 1 Nicholson Street, Melbourne, Victoria 3000 (AU).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/019464 A1

(54) Title: POXVIRUS VECTOR ENCODING PROSTATE SPECIFIC ANTIGENS FOR TREATMENT OF PROSTATE CANCER

(57) Abstract: A genetic vaccine construct comprising a poxvirus vector which incorporates and, on administration to a subject, expresses in a cell of said subject a sequence of nucleotides encoding a prostate-specific polypeptide, wherein said poxvirus vector does not productively infect said subject. The genetic vaccine construct is for treatment of prostate cancer. The prostate specific polypeptide is preferably rat prostatic acid phosphatase, and is preferably xenogenic to the subject. The poxvirus vector is an avipox virus vector, preferably a fowl poxvirus vector. The genetic vaccine construct may also encode for one or more cytokines.

BEST AVAILABLE COPY